

Programme Name	Bachelor of Engineering (Honours) Civil
Programme Description	<p>The Bachelor of Civil Engineering (Honours) programme is a semester based study programme with normal completion time of four (4) calendar years or eight (8) semesters; and a maximum of eight (8) calendar years or sixteen (16) semesters. For the student to complete the programme, he/she is required to complete 32 academic units including the six (6) months relevant industrial attachment.</p> <p>It is a curriculum based programme aimed to produce Civil Engineers to work in the different government agencies in Fiji and in private sector to assist in the vision of the development of modern engineering infrastructure for better life of people in the country.</p>
Majors	Civil
Minimum Requirements	<p>Pass in Year 13 with 280 out of 400 marks with pass 50% or more in English, 70% or more in Mathematics and 70% or more in Physics or Introduction to Technology or Chemistry and 50% or more in 1 other Science or Technology subject OR Foundation Science with GPA of 3.00 Or more.</p>
Duration	4 years
Programme Type	Degree
College Name	College of Engineering, Science and Technology
Campus	Derrick Campus, Samabula
Credit Points	480

Programme Structure		
Course Code	Course Title	Credit Points
	Year 1 Semester 1	
COM 502	Engineering Communication and Practices	15
MEB 502	Engineering Materials	15
CEB 503	Computer Aided Drafting and Modelling	15
MTH 517	Mathematics for Engineers I	15
	Year 1 Semester 2	
EEB501	Introduction to Electrical and Electronics Engineering	15
CSC 501	C++ Programming for Engineers	15
MEB 503	Engineering Mechanics	15
MTH 518	Mathematics for Engineers II	15
	Year 2 Semester 1	
MTH 618	Mathematics for Engineers III	15
CEB 601	Fluid Mechanics and Hydraulics	15
CEB 604	Structural Analysis I	15
CEB 602	Engineering Surveying	15
	Year 2 Semester 2	
CEB 605	Civil Engineering Technology	15
CEB 606	Geology and Geomechanics	15
CEB 607	Design and Analysis of Timber and Steel Structures	15
PEB 601	Design Project I	15

	Year 3 Semester 1	
CEB 701	Structural Analysis II	15
CEB 702	Geotechnical Engineering	15
CEB 703	Water Resources Engineering	15
PEB 702	Engineering and Society	15
	Year 3 Semester 2	
CEB 705	Highway Engineering and Design	15
CEB 706	Design of Reinforced and Pre-cast Concrete Structures	15
CEB 707	Water and Waste Water Engineering	15
PEB 701	Design Project II	15
	Year 4 Semester 1	
CEB 801	Structural Design of Foundations	15
CEB 805	Design of Bridges	15
CEB 806	Urban Storm Water and Environmental Management	15
PEB 801	Capstone Design Project I	15
	Year 4 Semester 2	
	Elective 1	15
CEB 804	Resilient Design of Structures	15
PEB 802	Capstone Design Project II	30
Total Credit Points		480

Electives

CEB 803	Water Resources Systems	15
CEB 807	Urban Transportation System Planning	15
CEB 808	Rock Engineering & Design Applications	15
CEB 809	Remote Sensing and GIS Applications	15
CEB 810	Dynamics of Structures	15
CEB 811	Coastal Engineering	15
CEB 812	Advanced Structural Design	15
CEB 813	Airport Engineering and Design	15

Course Prerequisite

Course Code	Course Title	Prerequisite
COM 502	Engineering Communication and Practices	A Pass in Fiji Seventh Form
MEB 502	Engineering Materials	A Pass in Fiji Seventh Form
CEB 503	Computer Aided Drafting and Modelling	A Pass in Fiji Seventh Form
MTH 517	Mathematics for Engineers I	A Pass in Fiji Seventh Form
EEB501	Introduction to Electrical and Electronics Engineering	Minimum entry requirement into BE (Hons) (Electrical)
CSC 501	C++ Programming for Engineers	A Pass in Fiji Seventh Form
MEB 503	Engineering Mechanics	A Pass in Fiji Seventh Form
MTH 518	Mathematics for Engineers II	Pass In MTH 517
MTH 618	Mathematics for Engineers III	Pass In MTH 518
CEB 601	Fluid Mechanics and Hydraulics	MEB503 - Engineering Mechanics
CEB 604	Structural Analysis I	Engineering Mechanics (MEB503)
CEB 602	Engineering Surveying	Engineering Science
CEB 605	Civil Engineering Technology	Engineering Materials (MEB502)
CEB 606	Geology and Geomechanics	CEB601, Fluid Mechanics and Hydraulics
CEB 607	Design and Analysis of Timber and Steel Structures	Structural Analysis I (CEB 604)
PEB 601	Design Project I	Pass Year 1 Units
CEB 701	Structural Analysis II	Structural Analysis I(CEB 604)
CEB 702	Geotechnical Engineering	CEB606, Geology and Geomechanics
CEB 703	Water Resources Engineering	CEB601 – Fluid Mechanics and Hydraulics
PEB 702	Engineering and Society	PEB 601
CEB 705	Highway Engineering and Design	CEB 702, Geotechnical Engineering
CEB 706	Design of Reinforced and Pre-cast Concrete Structures	Structural Analysis I (CEB 604)
CEB 707	Water and Waste Water Engineering	CEB703, Water Resources Engineering
PEB 701	Design Project II	PEB601 Design Project 1
CEB 801	Structural Design of Foundations	CEB 706, Design of Reinforced and Pre-Cast Concrete Structures
CEB 805	Design of Bridges	CEB 706, Design of Reinforced and Pre-Cast Concrete Structures
CEB 806	Urban Storm Water and Environmental Management	CEB 707, Water and Waste Water Engineering
PEB 801	Capstone Design Project I	PEB 701, Design Project 2
CEB 804	Resilient Design of Structures	CEB 706, Design of reinforced and Pre-Cast Concrete Structures
PEB 802	Capstone Design Project II	PEB 801, Capstone Design Project 1
CEB 803	Water Resources Systems	CEB 703, Water Resources Engineering
CEB 807	Urban Transportation System Planning	CEB 705, Highway Engineering and Design
CEB 808	Rock Engineering & Design Applications	CEB 702, Geotechnical Engineering
CEB 809	Remote Sensing and GIS Applications	Engineering Surveying (CEB602)
CEB 810	Dynamics of Structures	CEB 701, Structural Analysis II
CEB 811	Coastal Engineering	CEB 706, Design of Reinforced and

CEB 812	Advanced Structural Design	CEB 706, Design of Reinforced and Pre-Cast Concrete Structures
CEB 813	Airport Engineering and Design Applications	CEB705, Highway Engineering and Design